Subject index of volume 74

Acetylcholinesterase 13, 21, 27, 539 Acrylamide 487 Acrylonitrile 184 Adducts 207 Adhesion molecules 578 Adriamycin 231 All-trans-retinoic acid 173 All-trans-retinoyl-β-D-glucuronide 173 Alternative in vitro tests 173 Alveolar macrophage 452 Alveolar retention 663 Ames test 638 4-Aminobiphenyl 203 Amphibian assay 173 Anandamide 161 Androgen antagonist 127 Angiotensin-converting enzyme 257 Aniline 4-hydroxylase 527 Anticholinergic compounds 165 Anticonvulsants 165 Antidote therapy 184 Antiestrogens 249 Antioxidant enzymes 533 Apoptosis 33, 112, 226, 437, 460 Approach to cancer risk 642 Aromatic amines 203 Arsenic 289 Arsenic 289 Arsenite 289 Arylamine N-acetyltransferase 343 Asphalt fume condensate 452 Asthma 397 Astrocytes 695 Atropine 13, 165, 702 Avizafone 480 Azinphos-methyl 322

Benzo[a]pyrene 593 Biliary excretion 190 Biodiesel 490 Biomarker 642 Biomonitoring 680 Biotransformation 582, 609 Biperiden 165 Bis (tributyltin) oxide 627 Bismuth 349, 745 Bisphenol A 92, 99, 431, 649 Bitumen 720 Bladder 289 Bladder cancer 521 Blood pressure 1 Body burden 663 Brain 487 DL-2-Bromopropionic acid-toxicity 547 Brown Norway rat 609 1,3-Butadiene 680 Butoxyacetaldehyde 72 Butoxyacetic acid 72 2-Butoxyethanol 72 t-Butyl hydroperoxide 467

C6 Glioma cells 112 Caco-2 cells 79 Cadherins 578 Cadmium 1, 79, 571 Cadmium chloride 578 Calcium, intracellular 447 Calcium/calmodulin 1 CAM 335 Cancer risk extrapolation 499 Capillary gas chromatography 72 Capsaicin 40 Capsazepine 40 Carbachol 161 Carbamate 702 Carbofuran muscle toxicity 13 Carbon radical 5 Carcinogenicity 61 Caspase-3 226 Catalase 231 Caucasian 372 Cell culture 289 Cell proliferation 54, 61 Cerebellar granule cell necrosis 547, 783 Cerebellar granule cell toxicity-Excitotoxicity 153 Ceruloplasmin 190 Chick 161 4-Chlorophenoxy-acetic acid 560 L-2-Chloropropionic acid-glutathione conjugation in the mouse 547 L-2-Chloropropionic acid-metabolism 547 L-2-Chloropropionic acid-toxicity 547 Chlorpyrifos-ethyl 533 Chlorzoxazone 139, 372 Cholinesterase inhibitors 165 Chondroitin sulfate A complex 300 Chorioallantoic membrane 335 Cisplatin 300 Coal tar 720 Cocaine 511 Coculture system 379 Collagen gel 587 Colloidal bismuth subcitrate 349 Comet assay 112 Contact allergy 733 Contact photoallergy 733 Convulsions 165 Copper 190 Cornea 578 COX-2 768 Creatine kinase 13 Cyanide 184 N-Cyanoethyl-asparaginic acid 184 N-Cyanoethyl-valine 184 Cyclophosphamide 437 CYP1A 335 CYPIAI 145 CYP1B1 145 CYP2E1 139, 372, 638, 755 CYP2E1-knockout mouse 582 Cytochrome 755 Cytochrome P450 139, 397, 415, 437, 511 Cytotoxicity 40, 99, 437, 490

D-Amino-acid oxidase 473
D-Propargylglycine 473
Daidzein 421, 649
Decidual cell response 632
Dexamethasone 106
Diazepam 480
2,4-Dichlorophenoxyacetic acid 560
p-Dichlorobenzene 54
Diesel engine emissions 490
Diesel exhausts 460
Diethylhexylphthalate 85
Diethylstilbestrol 48
Dihydralazine 794

Diisocyanate inhalation 257
N,N-Dimethylformamide 755
Dimethylarsinic acid 289
Dimethylarsinic acid 289
7,12-Dimethylbenz[a]anthracene 593
Dinitrochlorobenzene 356
Distribution volume 313
Distribution 673
DNA adducts 720
DNA fragmentation 112
DNCB 356
Docetaxel 437
Dopamine 1, 270
Durene-3H 673

EEG activity 165 Electrospray mass spectroscopy 207, 215 Embryotoxicity 120, 173 Endocrine disrupter 48, 127, 649 Endothelium 335, 578, 593 Enhanced OECD Test Guideline 407, 127 Enterohepatic circulation 421, 431 Environmental oestrogens 421, 431 Enzyme induction 249 Epoxybutene 680 EROD 335 Esculetin 467 Estrogen receptor 709 Ethinylestradiol 709 7-Ethoxycoumarin 372, 379 Ethylene glycol ether 72 Excitotoxicity 161 Excretion 547, 673 Exercise training 539 Exocyclic DNA-hexenal adduct 642

Fatty acids 602, 695 Fibrogenicity 716 Fluoride 226 Fluoroacetate 33 Fluoroquinolones 555 Fluorosis 602 Flutamide 127 Free radical species 153 Fumonisin B₁ 112, 238 Fura-2 447

Gas chromatography 207
Genetic polymorphism 521, 755
Genistein 649
Genotoxicity 415, 794
Genotyping 688, 755
GF 165
α_{2u}-Globulin 48
Glutamate 161
Glutathione 356
Glutathione S-transferases 215, 276, 356, 397, 521, 688, 760
Growth retardation 120

Haemoglobin 207 Haemoglobin adducts 203 HBMOS 649 Heart 593 Hemoglobin adduct 322, 680 Hepatic enzyme activity 139 Hepatocarcinogenesis 85, 249 Hepatocytes 231, 379 Hepatotoxicity 238, 467, 789 Heterocyclic amine 335 Hexachlorobenzene 609 n-Hexane 582

Subject index of volume 74

Acetylcholinesterase 13, 21, 27, 539 Acrylamide 487 Acrylonitrile 184 Adducts 207 Adhesion molecules 578 Adriamycin 231 All-trans-retinoic acid 173 All-trans-retinoyl-β-D-glucuronide 173 Alternative in vitro tests 173 Alveolar macrophage 452 Alveolar retention 663 Ames test 638 4-Aminobiphenyl 203 Amphibian assay 173 Anandamide 161 Androgen antagonist 127 Angiotensin-converting enzyme 257 Aniline 4-hydroxylase 527 Anticholinergic compounds 165 Anticonvulsants 165 Antidote therapy 184 Antiestrogens 249 Antioxidant enzymes 533 Apoptosis 33, 112, 226, 437, 460 Approach to cancer risk 642 Aromatic amines 203 Arsenic 289 Arsenic 289 Arsenite 289 Arylamine N-acetyltransferase 343 Asphalt fume condensate 452 Asthma 397 Astrocytes 695 Atropine 13, 165, 702 Avizafone 480 Azinphos-methyl 322

Benzo[a]pyrene 593 Biliary excretion 190 Biodiesel 490 Biomarker 642 Biomonitoring 680 Biotransformation 582, 609 Biperiden 165 Bis (tributyltin) oxide 627 Bismuth 349, 745 Bisphenol A 92, 99, 431, 649 Bitumen 720 Bladder 289 Bladder cancer 521 Blood pressure 1 Body burden 663 Brain 487 DL-2-Bromopropionic acid-toxicity 547 Brown Norway rat 609 1,3-Butadiene 680 Butoxyacetaldehyde 72 Butoxyacetic acid 72 2-Butoxyethanol 72 t-Butyl hydroperoxide 467

C6 Glioma cells 112 Caco-2 cells 79 Cadherins 578 Cadmium 1, 79, 571 Cadmium chloride 578 Calcium, intracellular 447 Calcium/calmodulin 1 CAM 335 Cancer risk extrapolation 499 Capillary gas chromatography 72 Capsaicin 40 Capsazepine 40 Carbachol 161 Carbamate 702 Carbofuran muscle toxicity 13 Carbon radical 5 Carcinogenicity 61 Caspase-3 226 Catalase 231 Caucasian 372 Cell culture 289 Cell proliferation 54, 61 Cerebellar granule cell necrosis 547, 783 Cerebellar granule cell toxicity-Excitotoxicity 153 Ceruloplasmin 190 Chick 161 4-Chlorophenoxy-acetic acid 560 L-2-Chloropropionic acid-glutathione conjugation in the mouse 547 L-2-Chloropropionic acid-metabolism 547 L-2-Chloropropionic acid-toxicity 547 Chlorpyrifos-ethyl 533 Chlorzoxazone 139, 372 Cholinesterase inhibitors 165 Chondroitin sulfate A complex 300 Chorioallantoic membrane 335 Cisplatin 300 Coal tar 720 Cocaine 511 Coculture system 379 Collagen gel 587 Colloidal bismuth subcitrate 349 Comet assay 112 Contact allergy 733 Contact photoallergy 733 Convulsions 165 Copper 190 Cornea 578 COX-2 768 Creatine kinase 13 Cyanide 184 N-Cyanoethyl-asparaginic acid 184 N-Cyanoethyl-valine 184 Cyclophosphamide 437 CYP1A 335 CYPIAI 145 CYP1B1 145 CYP2E1 139, 372, 638, 755 CYP2E1-knockout mouse 582 Cytochrome 755 Cytochrome P450 139, 397, 415, 437, 511 Cytotoxicity 40, 99, 437, 490

D-Amino-acid oxidase 473
D-Propargylglycine 473
Daidzein 421, 649
Decidual cell response 632
Dexamethasone 106
Diazepam 480
2,4-Dichlorophenoxyacetic acid 560
p-Dichlorobenzene 54
Diesel engine emissions 490
Diesel exhausts 460
Diethylhexylphthalate 85
Diethylstilbestrol 48
Dihydralazine 794

Diisocyanate inhalation 257
N,N-Dimethylformamide 755
Dimethylarsinic acid 289
Dimethylarsinic acid 289
7,12-Dimethylbenz[a]anthracene 593
Dinitrochlorobenzene 356
Distribution volume 313
Distribution 673
DNA adducts 720
DNA fragmentation 112
DNCB 356
Docetaxel 437
Dopamine 1, 270
Durene-3H 673

EEG activity 165 Electrospray mass spectroscopy 207, 215 Embryotoxicity 120, 173 Endocrine disrupter 48, 127, 649 Endothelium 335, 578, 593 Enhanced OECD Test Guideline 407, 127 Enterohepatic circulation 421, 431 Environmental oestrogens 421, 431 Enzyme induction 249 Epoxybutene 680 EROD 335 Esculetin 467 Estrogen receptor 709 Ethinylestradiol 709 7-Ethoxycoumarin 372, 379 Ethylene glycol ether 72 Excitotoxicity 161 Excretion 547, 673 Exercise training 539 Exocyclic DNA-hexenal adduct 642

Fatty acids 602, 695 Fibrogenicity 716 Fluoride 226 Fluoroacetate 33 Fluoroquinolones 555 Fluorosis 602 Flutamide 127 Free radical species 153 Fumonisin B₁ 112, 238 Fura-2 447

Gas chromatography 207
Genetic polymorphism 521, 755
Genistein 649
Genotoxicity 415, 794
Genotyping 688, 755
GF 165
α_{2u}-Globulin 48
Glutamate 161
Glutathione 356
Glutathione S-transferases 215, 276, 356, 397, 521, 688, 760
Growth retardation 120

Haemoglobin 207 Haemoglobin adducts 203 HBMOS 649 Heart 593 Hemoglobin adduct 322, 680 Hepatic enzyme activity 139 Hepatocarcinogenesis 85, 249 Hepatocytes 231, 379 Hepatotoxicity 238, 467, 789 Heterocyclic amine 335 Hexachlorobenzene 609 n-Hexane 582 2,5-Hexanedione 582
Hindlimb crossing 196
HL-60 226
Hormonally active agents 649
HPLC 609
HPLC/fluorescence detection analysis 760
Human liver 511
Human urinary sediment 618
Humans 21, 85, 499, 720
Hydralazine 794
N-Hydro-aynorcocaine 511
Hydrocarbons 308
Hydrolase 27
Hygiene-based margin of safety 649
Hyperthermia 789

Immunohistochemistry 249 In vitro model 308, 587 In vivo detection 404 Induction 139, 329, 335 Inflammation 460 Inhalation 663 iNOS 768 Intestinal microflora 379 Intoxication 184 Irreversible binding 593 Irritation 733

Japanese 372 Jet fuel Toxicant 276

Kidney 527, 602 Kidney stone 618 Kidney tissue 688 Kinetics 499 KW-2149 106

L-2-Chloropropionic acid 153
Laboratory diet 203
Lactic acid 695
Lactotrope 92
LC-MS 609
Lewisite 207
Lipid 602
Lipid peroxidation 79, 533, 539, 602
Liver 289, 329, 366
Liver slices 308
Local lymph node assay (LLNA) 733
Long-Evans Cinnamon (LEC) rat 190
Low-dose long-term exposure 571
Lung 289, 329, 397, 593
Lung injury 452
Lung pathology 609
Lung slices 460
Luteinizing hormone 270

Magnesium 1
Magnetic resonance 487
Malondialdehyde 79
Maneb 415
Mass spectroscopy 207, 215
Maternal toxicity 120
MDMA 789
MDCK cells 447
Memantine 13
Mercapturic acid pathway 609
Metabolic activation 794
Metabolism 99, 308, 388, 673
Methanol 313
Methoxychlor 270
N-Methyl-p-aspartate 161

5-Methyl-deoxycytosine and 8-hydroxydeoxyguanosine 79 Methyl bromide 760 Methyl chloride 760 Methylarsonic acid 289 Methylarsonous acid 289 Methylation 289 S-Methylglutathione 760 Methylmercury 196 Mice 473, 702 Micronucleus test 794 Mitochondrial dysfunction 99 Mitomycin analogue 106 Molecular epidemiology 222 Moxifloxacin 555 Müller cell 276 Muscle tension 539 Mutagenicity 490, 716 Mutant mouse 473

Napthalene 215 Necrosis 783 Nephropathy 349, 745 Nephrotoxicity 300, 349, 745 Neuronal culture 161 Neuropathology 480 Neurotoxicity 487 Nickel 5 Nitric oxide 775 N^{ω} -Nitro-L-arginine 775 N-Nitrosodiethylamine 638 N-Nitrosodimethylamine 329 p-Nitrophenol 388 p-Nitrophenol hydroxylase 527 Nitrosodimethylamine N-demethylase NMDAantagonist 702 No-effect level 716 Non-Fenton 5 Nonylphenol 649

Norcocaine 511

Nuclear factor kB 238

Nuclear morphology 437

o, p'-DDT 649
Ochratoxin A 499
p-tert-Octylphenol 649
Oestrone sulphatase 366
Oestrone-3-O-sulphamate 366
Okadaic acid 79
Organophosphate 21, 27, 165, 322, 480, 702
Organotypic culture 460
Ortho-phenylphenol 61
Oxidative DNA damage 61
Oxidative stress 695
Oximes 21
8-Oxodeoxyguanosine 54
8-Oxoguanine 716

32P-HPLC 720
32P-Postlabelling 404
Paclitaxel 437
PACOCF₃ 447
Palmitoylethanolamide 161
Paraquat 231, 775
PARP 226
Particulate matter 490
Paving asphalt 452
PCB 126 593
Pentachloronitrobenzene 609
Pentachlorophenol 609

Percutaneous nephrostomy catheter 618 Percutaneous penetration 356 Periodontal disease 343 Peroxisome proliferation 85 Petroleum 720 Pharmacokinetics 300, 388 Phenol sulphotransferase 222 Phenotype 688, 755 Phenoxyacetic acid 560 Phenylbenzoquinone 61 Phenylhydroquinone 61 Phosphoryl oximes 27 Photochemical mutagenicity 555 Photoirritation 733 Physical activity 663 Placental transfer 388 Plasma 27 Plasma levels 499 Plasmalogens 695 Pleural effusion 106 Polycyclic aromatic hydrocarbons 490 Polymorphism 222, 343, 372 Postnatal toxicity, L-2-chloropropionic Pre- and postnatalprotein malnutrition 196 Procarcinogen 329 Progesterone receptor 709 Prolactin 92, 270 Proliferating cell nuclear antigen 571 $1, N^2$ -Propanodeoxyguanosine adducts 404 Prostate cancer 22 Prostate carcinoma 521 Protein adducts 184 Protein synthesis 196 Proximal tubule 349, 473, 745 Pseudopregnancy 632 P-type ATPase 190 Pulmonary edema 257 Pulmonary inflammation 452 Pulmonary toxicity 106 Pyridine 329, 52' Pyridostigmine 539

Quartz 716 Quinolone 120

Rabbit 329 Rapeseed oil 490 Rat 48, 127, 139, 203, 349, 632, 673, 716, 745, 775 Rat hepatocytes 99, 145, 587 Rate of distribution 313 Rate of invasion 313 Reactivation 21 Renal carcinogenesis 54, 688 Renal carcinomas 688 Renal toxicity 571 Renal tubular cells 618 Resveratrol 709 Retina 276 Risk evaluation 61 RT-PCR 145 Ruthenium red 40

Saccharomyces cerevisiae 415 Sarin 165 Screening 48 Seizures 165, 480 Silver 190 Skin 289, 609, 768 Smoking 343 Soman 165 Species differences 85 Sphingolipids 238 Spleen 366 Splenomegaly 609 Spontaneously hypertensive rats (SHR) 1 Sulfur mustard 768 Superoxide dismutase 231 Surfactant 257 Sweat gland 627

Tabun 165
Tamoxifen 249
Teratogenic effect 120
Testis 33
Testosterone 270
Thiol protectants 257

Tissue distribution in the mouse 547 Toluene 139 Toluene diisocyanate 397 Toremifene 249 Toxicity 33, 289 Toxicokinetics 308, 421, 431, 663 Transforming growth factor TGF- β_1 145 Transitional cells 618 Tributyltin chloride 632 Trichloroethylene 587 2,4,5-Trichlorophenoxyacetic acid 560 Tubular regeneration 571 Tumour necrosis factor α 238

Ultrafine particles 490 Ultrastructure 627 Uterotrophic assay 709 V-79 cells 555 Vero cells 40 Vitamin C 5 Vitamin E 112 Volatile compounds 663 VX 165

Wet dog shakes 775 White blood cells 366 Wistar rats 92

Xenoestrogen 92 X-ray microanalysis 627

z Yeast 415

